## PATENT COOPERATION TREATY

## From the INTERNATIONAL SEARCHING AUTHORITY

To:	PCT		
RICHARD T. ITO GENENCOR INTERNATIONAL, INC.	NOTIFICATION OF TRANSMITTAL OF		
925 PAGE MILL ROAD PALO ALTO, CA 94304	THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL		
	SEARCHING AUTHORITY, OR THE DECLARATION		
`	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 08 MAR 2005		
oplicant's or agent's file reference  FOR FURTHER ACTION See paragraphs 1 and 4			
International application No. PCT/US04/14685	International filing date (day/month/year) 12 May 2004 (12.05.2004)		
Applicant			
GENENCOR INTERNATIONAL, INC.			
1. The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.			
Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):			
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.			
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35			
For more detailed instructions, see the notes on the accompanying sheet.			
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.			
no decision has been made yet on the protest; the a	pplicant will be notified as soon as a decision is made.		
4. Reminders  Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
In respect of other designated Offices, the time limit of 30 mon	ths (or later) will apply even if no demand is filed within 19 months.		
See the Annex to Form PCT/IB/301 and, for details about to Guide, Volume II, National Chapters and the WIPO Internet sit	the applicable time limits, Office by Office, see the PCT Applicant's te.		
Name and mailing address of the ISA/ US	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents Tekthand Saidha			
P.O. Box 1450 Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230  (See notes on accompanying sheet)			

# PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference GC800-2-PCT	FOR FURTHER  see Form PCT/ISA/220  ACTION  as well as, where applicable, item 5 below.				
International application No. PCT/US04/14685	International filing date (day/month/year) 12 May 2004 (12.05.2004)	(Earliest) Priority Date (day/month/year) 12 May 2003 (12.05.2003)			
Applicant GENENCOR INTERNATIONAL, INC.					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of sheets.  It is also accompanied by a copy of each prior art document cited in this report.					
<ol> <li>Basis of the Report</li> <li>With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ol>					
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.					
2. Certain claims were found unsearchable (See Box No. II)					
3. Unity of invention is lacking. 4. With regard to the title,	ng (See Box No. III)				
the text is approved as subm	nitted by the applicant.				
the text has been established by this Authority to read as follows:					
5. With regard to the abstract,					
the text is approved as subm	-				
the text has been established may, within one month from	l, according to Rule 38.2(b), by this Authority in the date of mailing of this international search	as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.			
as suggested by the as selected by this a	Authority, because the applicant failed to sugg Authority, because this figure better characteri	est a figure.			
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### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/14685

IPC(7)	SIFICATION OF SUBJECT MATTER : C12N 9/20, 1/20, 15/00; C07H 21/04			
US CL	: 435/198, 252.3, 320.1; 536/23.2; 510/226	tional classification and IPC		
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED				
B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 435/198, 252.3, 320.1; 536/23.2; 510/226				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) STN & WEST.				
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
X,P	REES et al. Detecting cellulase and esterase enzyme present in environmental DNA libraries. Extremoph pages 415-421. See page 417, Table 1, ELIP clone, amino acid sequence which is identical to Applicants NO: 1 is also 4313 bp in length.	iles. October 2003, Vol. 7, No. 5, 4313 bp; page 418, ELIP predicted	1-13	
<b>A,P</b>	VARGAS et al. Lipase-producing microorganisms from a Kenyan alkaline soda lake.  1-13 Biotechnology Letters. January 2004, Vol. 26, No. 2, pages 81-86.		1-13	
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Further documents are listed in the continuation of Box C. See patent family annex.				
"A" document of particu "E" earlier ap "L" document establish (specified) "O" document "P" document	defining the general state of the art which is not considered to be lar relevance plication or patent published on or after the international filing date which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as referring to an oral disclosure, use, exhibition or other means published prior to the international filing date but later than the ate claimed	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  document member of the same patent family		
	the of the actual completion of the international search  Date of mailing of the international search report  OR MAR 2005		ch report NR 2005	
Name and ma Mai Con P.O Ale:	2005 (14.02.2005)  filing address of the ISA/US  I Stop PCT, Attn: ISA/US  missioner for Patents  Box 1450  mandria, Virginia 22313-1450  (703) 305-3230	Authorized officer  Tekchand Saidha  Telephone No. (571) 272 1600	of	

PATENT COOPERATION TREATY From the INTERNATIONAL SEARCHING AUTHORITY RICHARD T. ITO GENENCOR INTERNATIONAL, INC. 925 PAGE MILL ROAD WRITTEN OPINION OF THE PALO ALTO, CA 94304 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) 08 MAR 2005 Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below GC800-2-PCT Priority date (day/month/year) International filing date (day/month/year) International application No. 12 May 2003 (12.05.2003) 12 May 2004 (12.05.2004) PCT/US04/14685 International Patent Classification (IPC) or both national classification and IPC IPC(7): C12N 9/20, 1/20, 15/00; C07H 21/04 and US Cl.: 435/198, 252.3, 320.1; 536/23.2; 510/226 Applicant GENENCOR INTERNATIONAL, INC. 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement . Certain documents cited Box No. VI Certain defects in the international application Box No. VII Certain observations on the international application Box No. VIII 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

3. For further details, see notes to Form PCT/ISA/220.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents

> P.O. Box 1450 Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Velephone No. (571) 272 1600

Authorized officer

Form PCT/ISA/237 (cover sheet) (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/14685

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/14685

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement YES Claims 1-13 Novelty (N) NO Claims NONE YES Claims 1-13 Inventive step (IS) NO Claims NONE YES Claims 1-13 Industrial applicability (IA) NO Claims NONE 2. Citations and explanations: Claims 1-13 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the polypeptide sequence having lipolytic activity, the encoding DNA sequence, vector and host cell or the detergent composition comprising the polypeptide sequence. Claims 1-13 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must inclicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers. claims 30, 33 and 36 unchanged; new claims 49 to 51 added.
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims I to 15 replaced by amended claims I to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims): "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 addæd; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: Claims 1-10 unchanged: claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14: claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1))

The statement will be published with the international application and the amended claims.

# It must be in the Language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

# Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submatted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

# Consequence with regard to translation of the international application for entry into the national phase

The applicant's amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide,